

Standard Operating Procedure (SOP) for Windows Server Deployment and Domain Controller

Purpose:

To provide a standardized and consistent approach to deploying Windows Servers and configuring them as Domain Controllers within the organization. This ensures the reliability, security, and proper functionality of the IT infrastructure.

Scope:

This SOP applies to all IT personnel responsible for deploying and managing Windows Servers and Domain Controllers.

Responsibilities:

- **IT Administrator:**
 - Plans and executes server deployment and domain controller configuration.
 - Maintains server documentation and updates.
 - Monitors server performance and security.
- **IT Security Team:**
 - Reviews security settings and compliance.
 - Addresses vulnerabilities and implements best practices.

Procedures:

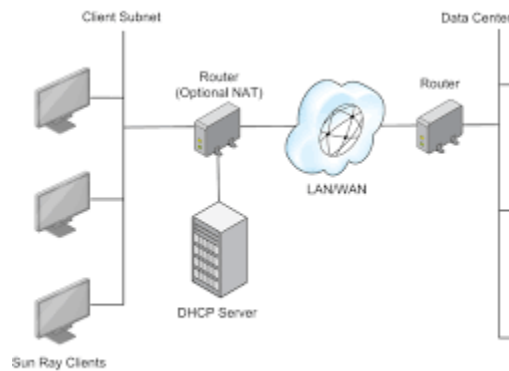
1. Planning and Preparation:

- **Hardware and Software Requirements:**
 - Verify that the server hardware meets the minimum requirements for the chosen Windows Server version.
 - Ensure availability of necessary installation media and licenses.

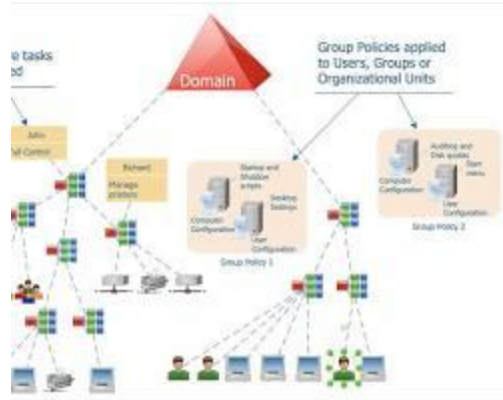
Memory	4.00 GB
Hard Disk space	1TB
Monitor	21.5 Samsung Sync Master 2233sw
Others	Other required standard computer peripherals, such as keyboard and mouse.

Software	Description
Server Environment	
Operating System	Microsoft Windows 7
Programming Tool	Adobe Dreamweaver CS4
Database server	MySQL 5.1.30 database (Windows)
Web server	Apache 2.2.11

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- R⁶ www.researchgate.net
- Windows Server Hardware and Software Requirements Table
- Network Configuration:
 - Assign a static IP address, subnet mask, default gateway, and DNS servers.
 - Configure network interfaces and firewall settings.



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- oracle.com
- Network Configuration Diagram
- Domain Planning:
 - Determine the forest and domain name structure.
 - Plan for domain functional levels and operational roles.



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- www.conceptdraw.com
- Domain Structure Planning Diagram

2. Windows Server Installation:

- Boot from the installation media:
 - Select language and keyboard settings.
 - Click "Install Now."
 - Enter the product key if required.
 - Select the server version and installation type.



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- www.alexandervanwynsberghe.be
- Windows Server Installation Process Screenshots
- Disk Partitioning:
 - Allocate appropriate disk space for the operating system, data, and logs.



- ### 3. Domain Controller Promotion:

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- The screenshot shows the 'Deployment Configuration' step of the 'Active Directory Domain Services Configuration Wizard'. The window title is 'Active Directory Domain Services Configuration Wizard'. The 'Deployment Configuration' tab is selected, showing options for 'Domain Controller Options', 'Additional Options', 'Paths', 'Feature Options', and 'Prerequisites Check'. The 'Domain Controller Options' section is expanded, showing 'Select the deployment operation' with three radio buttons: 'Add a domain controller to an existing domain' (selected), 'Add a new domain to an existing forest', and 'Add a new forest'. Below this, 'Specify the domain information for this operation' shows the 'Domain' as 'corp.threemsg.com' with a 'Select...' button. The 'Supply the credentials to perform this operation' section shows 'COMPUTER1 (Current user)' with a 'Choose...' button. At the bottom, there are 'Previous', 'Next >', and 'Install' buttons.

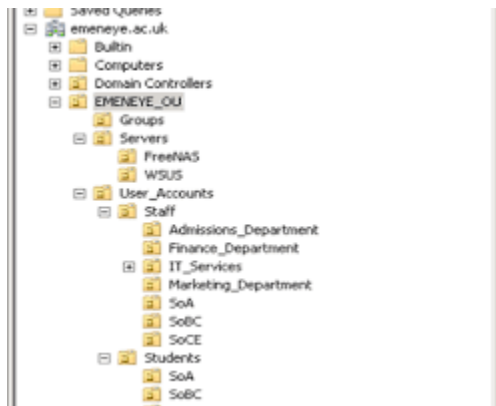
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-  learn.microsoft.com

- Specify Deployment Configuration:
 - Choose to create a new forest or add a domain controller to an existing domain.
 - Provide the domain name and forest functional level.

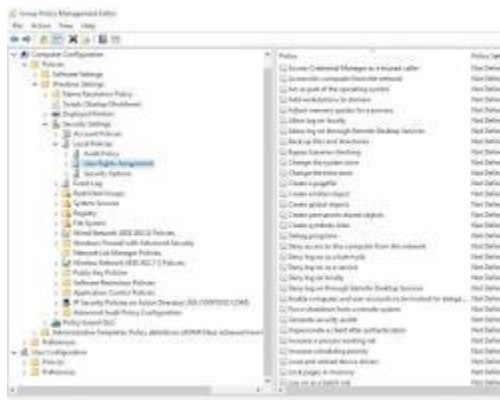
- DNS Options:
 - Confirm or specify DNS server settings.
- Review Options and Install:
 - Verify configuration choices and click "Install."
 - The server will restart and promote itself to a domain controller.

4. Post-Deployment Configuration:

- Create Organizational Units (OUs):
 - Structure the directory for users, groups, and computers.



- [Opens in a new window](#)
- [emeneye.wordpress.com](https://www.emeneye.com)
- Active Directory Users and Computers with OU Structure
- Create User and Computer Accounts:
 - Add users and computers to the domain.
- Apply Group Policies:
 - Configure security settings, software deployment, and user environments.



- [Opens in a new window](#)
- [blog.netwrix.com](https://www.blog.netwrix.com)
- Group Policy Management Console

- Configure DNS:
 - Ensure proper DNS resolution for the domain.
- Establish Backup and Recovery:
 - Implement a regular backup schedule for critical data.

5. Ongoing Maintenance and Security:

- Regular Updates:
 - Apply security patches and updates promptly.
- Monitoring:
 - Track server performance and resource usage.
- Security Reviews:
 - Conduct regular security assessments and address vulnerabilities.
- Change Management:
 - Document and control changes to the server environment.